Naveen Jindal School of Management

Healthcare Management and Molecular Biology (Double Major) (BS)

Bachelor of Science in Healthcare Management and Molecular Biology (Double Major)

Degree Requirements (152-153 semester credit hours)\(^1\), \(^2\)

JSOM Faculty

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**Associate Professors:** Mehmet Ayvaci, Nina Baranchuk, Norris Bruce, Zhonglan Dai, Rebecca Files, Dorothée Honhon, Bin Hu, Kyle Hyndman, Surya N. Janakiraman, Robert L. Kieschnick Jr., Atanu Lahiri, Jun Li, Ningzhong Li, Lívia Markóczy, Amit Mehra, Toyah Miller, Ramachandran (Ram) Natarajan, Naim Bugra Ozel, H. Dennis Park, Cuili Qian, Young U. Ryu, Gil Sadka, Harpreet Singh, David J. Springate, Upender Subramanian, Shaojie Tang, Kelsey D. Wei, Han (Victor) Xia, Yexiao Xu, Alejandro Zentner, Jieying Zhang, Yuan Zhang, Feng Zhao, Yibin Zhou

**Assistant Professors:** Khai Chiong, Emily Choi, Andrew Frazelle, Ying Huang, Joonhwi Joo, Sora Jun, Sheen Levine, Meng Li, Maria Loumioti, Jean-Marie Meier, Radha Mookerjee, Anyan Qi, Alejandro Rivera Mesias, Alessio Saretto, Simon Siegenthaler, Serdar Simsek, Xiaoxiao Tang, Shervin Tehrani, Ashwin Venkataraman, Christian Von-Drathen, Guihua Wang, Shouqiang Wang, Junfeng Wu, Steven Xiao, Yingjie Zhang, Zhe (James) Zhang, Xiaofei Zhao

**Professor Emeritus:** John J. Wiorkowski

**Assistant Professors Emeriti:** J. Richard Harrison, Jane Salk
Clinical Professors: John Barden, Britt Berrett, Abhijit Biswas, Shawn Carraher, Larry Chasteen, David Cordell, Howard Dover, John Gamino, Randall S. Guttery, William Hefley, Marilyn Kaplan, Sonia Leach, Peter Lewin, Jeffrey Manzi, Diane S. McNulty, Divakar Rajamani, Daniel Rajaratnam, Kannan Ramanathan, David Ritchey, Mark Thouin, McClain Watson, Jeff Weekley, Habte Woldu, Fang Wu, Laurie L. Ziegler

Clinical Associate Professors: Shawn Alborz, Dawn Owens, Carolyn Reichert, Avanti P. Sethi, Ramesh Subramoniam, Aysegul Toptal, David Widdifield

Clinical Assistant Professors: Athena Alimirzaei, Moran Blueshtein, Judd Bradbury, Sourav Chatterjee, Jerome Gafford, Ayfer Gurun, Jeffery (Jeff) Hicks, Revansiddha Khanapure, Kristen Lawson, Kathryn Lookadoo, Liping Ma, Sarah Moore, Ravi Narayan, Parneet Pahwa, Jason Parker, Drew Peabody, Nassim Sohaee

Professor of Instruction: Charles Hazzard

Associate Professor of Instruction: Maria Hasenhuttl

Assistant Professors of Instruction: Julie Haworth, Rasoul Ramezani

Professors of Practice: Ranavir Bose, Rajiv Shah

Associate Professor of Practice: David Parks


NSM Faculty

Profsessors: Rockford K. Draper, Juan E. González, Lawrence J. Reitzer, Stephen Spiro, Li Zhang, Michael Qiwei Zhang

Associate Professors: John G. Burr, Jeff L. DeJong, Nikki Delk, Tae Hoon Kim, Kelli Palmer, Duane D. Winkler, Zhenyu Xuan, xd131030

Assistant Professors: Zachary Campbell, Nicole De Nisco, Jyoti Misra, Faruck Morcos

Professors Emeriti: Hans Bremer, Lee A. Bulla, Donald M. Gray
Associate Professors Emeriti: Gail A. M. Breen, Dennis L. Miller

Clinical Professor: David Murchison

Research Assistant Professors: Lan Guo, Li Liu

Professors of Instruction: Scott A. Rippel, Uma Srikanth

Associate Professors of Instruction: Mehmet Candas, Wen-Ju Lin, Elizabeth Pickett, Ilya Sapozhnikov, Michelle Wilson

Assistant Professors of Instruction: Caitlin Braitsch, Ida Klang, Iti Mehta, Jing Pan, Eva Sadat, Subha Sarcar, Zhuoru Wu

Senior Lecturers: Meenakshi Maitra, Ruben D. Ramirez, Wen-Ho Yu

I. Core Curriculum Requirements: 42 semester credit hours

Communication: 6 semester credit hours

Select any 6 semester credit hours from Communication Core courses (see advisor)

Mathematics: 3 semester credit hours

**MATH 2417** Calculus I

or **MATH 2413** Differential Calculus

Or select any 3 semester credit hours from Mathematics Core courses (see advisor)

Life and Physical Sciences: 6 semester credit hours

**CHEM 1311** General Chemistry I

or **CHEM 1315** Honors Freshman Chemistry I

**CHEM 1312** General Chemistry II

or **CHEM 1316** Honors Freshman Chemistry II

Or select any 6 semester credit hours from Life and Physical Sciences Core courses (see advisor)

Language, Philosophy and Culture: 3 semester credit hours

Select any 3 semester credit hours from Language, Philosophy and Culture Core courses

(see advisor)

Creative Arts: 3 semester credit hours

Select any 3 semester credit hours from Creative Arts Core courses (see advisor)

American History: 6 semester credit hours

Select any 6 semester credit hours from American History Core courses (see advisor)

Government/Political Science: 6 semester credit hours

GOVT 2305 American National Government
GOVT 2306 State and Local Government

Or select any 6 semester credit hours from Government/Political Science Core courses (see advisor)

Social and Behavioral Sciences: 3 semester credit hours

Choose one of the following:

BA 1310 Making Choices in Free Market Systems
BA 1320 Business in a Global World
ECON 2301 Principles of Macroeconomics
ECON 2302 Principles of Microeconomics

Or select any 3 semester credit hours from Social and Behavioral Sciences Core courses (see advisor)

Component Area Option: 6 semester credit hours

Choose two of the following:

MATH 2419 Calculus II
MATH 2414 Integral Calculus
BA 1310 Making Choices in Free Market Systems
BA 1320 Business in a Global World
ECON 2301  Principles of Macroeconomics
ECON 2302  Principles of Microeconomics

Or select any 6 semester credit hours from Component Area Option Core courses (see advisor)

II. Major Requirements: 89-90 semester credit hours

Biology Major Preparatory Courses: 20-21 semester credit hours beyond Core Curriculum

CHEM 1111  General Chemistry Laboratory I
or CHEM 1115  Honors Freshman Chemistry Laboratory I
CHEM 1112  General Chemistry Laboratory II
or CHEM 1116  Honors Freshman Chemistry Laboratory II
CHEM 1311  General Chemistry I
or CHEM 1315  Honors Freshman Chemistry I
CHEM 1312  General Chemistry II
or CHEM 1316  Honors Freshman Chemistry II
CHEM 2123  Introductory Organic Chemistry Laboratory I
CHEM 2125  Introductory Organic Chemistry Laboratory II
CHEM 2323  Introductory Organic Chemistry I
CHEM 2325  Introductory Organic Chemistry II
MATH 2417  Calculus I
or MATH 2413  Differential Calculus
MATH 2419  Calculus II
or MATH 2414  Integral Calculus
PHYS 2325  Mechanics and PHYS 2125  Physics Laboratory I
or PHYS 2421 Honors Physics I - Mechanics and Heat

PHYS 2326 Electromagnetism and Waves

or PHYS 2422 Honors Physics II - Electromagnetism and Waves

PHYS 2126 Physics Laboratory II

**Biology Core Courses: 33 semester credit hours**

BIOL 2111 Introduction to Modern Biology Workshop I

BIOL 2112 Introduction to Modern Biology Workshop II

BIOL 2281 Introductory Biology Laboratory

BIOL 2311 Introduction to Modern Biology I

BIOL 2312 Introduction to Modern Biology II

BIOL 3101 Classical and Molecular Genetics Workshop

BIOL 3102 Eukaryotic Molecular and Cell Biology Workshop

BIOL 3161 Biochemistry Workshop I

BIOL 3162 Biochemistry Workshop II

BIOL 3301 Classical and Molecular Genetics

BIOL 3302 Eukaryotic Molecular and Cell Biology

BIOL 3361 Biochemistry I

BIOL 3362 Biochemistry II

or BIOL 3335 Microbial Physiology

BIOL 3380 Biochemistry Laboratory

BIOL 4461 Biophysical Chemistry

**Business Major Preparatory Courses: 12 semester credit hours beyond Core Curriculum**

ACCT 2301 Introductory Financial Accounting
ACCT 2302  Introductory Management Accounting

BLAW 2301  Business and Public Law

OPRE 3360  Managerial Methods in Decision Making Under Uncertainty
or STAT 2332  Introductory Statistics for Life Sciences
or STAT 3360  Probability and Statistics for Management and Economics

Choose two of the following:

BA 1310  Making Choices in Free Market Systems
or ECON 2302  Principles of Microeconomics

BA 1320  Business in a Global World
or ECON 2301  Principles of Macroeconomics

Business Core Courses: 24 semester credit hours

BCOM 1300  Introduction to Professionalism and Communication in Business
or BCOM 3300  Professionalism and Communication in Business

BCOM 4300  Managing Communications in Business

IMS 3310  International Business

FIN 3320  Business Finance

OPRE 3310  Operations Management

ITSS 3300  Information Technology for Business

OBHR 3330  Introduction to Human Resource Management
or OBHR 3310  Organizational Behavior

MKT 3300  Principles of Marketing

III. Elective Requirements: 21 semester credit hours

A practicum experience of at least 160 working hours is required:
A community engagement experience is required:

**BA 4095 Social Sector Engagement and Community Outreach Practicum**

**Healthcare Management Core Courses: 18 semester credit hours**

- **HMGT 3301** Introduction to Healthcare Management
- **HMGT 3310** Healthcare Regulatory Environment
- **HMGT 3311** Healthcare Financial Analysis
- **HMGT 3320** Complex and Dynamic Healthcare Environment
  
or **ECON 3330** Economics of Health
- **HMGT 4321** Introduction to Healthcare Information Systems
- **HMGT 4395** Capstone Senior Project - Healthcare Management
  
or **BPS 4395** Capstone Senior Project - Business
  
or **ENTP 4395** Capstone Senior Project - Entrepreneurship

**Biology (3 semester credit hours):**

- **BIOL 4380** Cell and Molecular Biology Laboratory
  
or **BIOL 3V96** Undergraduate Research in Molecular and Cell Biology
  
or **BIOL 4391** Senior Research in Molecular and Cell Biology
  
or **BIOL 4399** Senior Honors Research for Thesis in Molecular and Cell Biology

All students must complete at least 51 semester credit hours of upper-division courses to graduate.

1. Incoming freshmen must enroll and complete requirements of UNIV 1010 and the corresponding school-related freshman seminar course. Students, including transfer students, who complete their core curriculum at UT Dallas must take UNIV 2020.
2. Degree is 153-154 semester credit hours if students are required to take NATS 1101.

3. Curriculum Requirements can be fulfilled by other approved courses from institutions of higher education. The courses listed are recommended as the most efficient way to satisfy both Core Curriculum and Major Requirements at UT Dallas.

4. Indicates a prerequisite class to be completed before enrolling for upper-division classes.

5. A required Major course that also fulfills a Core Curriculum requirement. Semester credit hours are counted in Core Curriculum.

6. Six semester credit hours of Calculus are counted under Mathematics Core and Component Area Option Core, and 2 semester credit hours of Calculus are counted as Biology Major Preparatory Courses.

7. Students may elect to substitute MATH 2417 for MATH 2413.

8. In order to make timely degree progress, students should complete MATH 2413 or MATH 2417 by the end of their first semester at UT Dallas. Students who will not meet this requirement should contact their academic advisor to discuss their degree timeline.

9. Certain courses listed are prerequisites for major core, major concentration, or major related courses. Choose accordingly.

10. Students may elect to substitute MATH 2419 for MATH 2414.

11. Students who complete PHYS 2421 do not need to complete PHYS 2125.

12. JSOM first-time-in-college freshmen are required to take BCOM 1300 in their first semester. Transfer students and students new to JSOM are required to take BCOM 3300 in their first semester.

13. Students may fulfill the internship requirement with HMGT 4090, BA 4090, or HMGT 4v90 (1-3 semester credit hours). The zero semester credit hour courses HMGT 4090 or BA 4090 are recommended as the most efficient way to satisfy this requirement.

14. Students may fulfill the community engagement requirement with BA 4095, IMS 4335, ENTP 4340, or MKT 4360. The zero semester credit hour course BA 4095 is recommended as the most efficient way to satisfy this requirement.

15. Requires permission of the Biology Undergraduate Advisor to ensure training in recombinant DNA analysis.

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